



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20070008

Agency Interest No. 1255

Linda Reinhardt

Manager, Operations

Chlorine & Derivatives

PPG Industries, Inc.

P.O. Box 1000

Lake Charles, LA 70602

RE: Part 70 Operating Permit Minor Modification, PPG Industries Inc. - Lake Charles Complex – TE 2-Unit  
PPG Industries Inc., Lake Charles, Calcasieu Parish, Louisiana

Dear Ms. Reinhardt:

This is to inform you that the minor permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 21<sup>st</sup> of February, 2010, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

Permit No.: 2695-V1

Sincerely,

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:sjt

c: EPA Region VI

**ENVIRONMENTAL SERVICES**

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

[WWW.DEQ.LOUISIANA.GOV](http://WWW.DEQ.LOUISIANA.GOV)

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**PPG INDUSTRIES, INC., TE-2 UNIT**  
**PROPOSED PART 70 AIR OPERATING PERMIT MINOR MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on a Part 70 air operating permit minor modification for PPG Industries, Inc., P.O. Box 1000, Lake Charles, LA 70602 for the TE-2 Unit. The facility is located at 1300 PPG Drive, Lake Charles, Calcasieu Parish.

PPG Industries, Inc., Lake Charles Complex is a chemical manufacturing facility. The facility was first permitted in 1972 and the TE-2 Unit currently operates under Permit Number 2695-VO, issued February 21, 2005. PPG requested a Part 70 air operating permit minor modification for the TE-2 Unit.

The proposed permit is not required to be submitted to EPA for comment. The reason for the public comment period is due to the increase in Toxic Air Pollutants (TAPs) by an amount greater than the minimum emission rate (MER). [See LAC 33:III.5107.D.1.a]

PPG proposes the following changes:

- Add PM<sub>10</sub> and VOC emissions (along with speciation) to the Cooling Tower (EPN 533C).
- Delete sources 356 – TE-2 No 1 DME Storage Tank & 357 – TE-2 No 2 DME Storage Tank.

A permit shield is included in this permit. [See LAC 33:III.507.I.2.b]

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM <sub>10</sub>	2.08	2.15	+0.07
SO <sub>2</sub>	0.16	0.16	-
NO <sub>x</sub>	26.40	26.40	-
CO	22.18	22.18	-
VOC*	23.59	24.32	+0.73

*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):			
Pollutant	Before	After	Change
1,1,2-Trichloroethane	2.07	2.19	+0.12
1,1,2,2-Tetrachloroethane	0.12	0.16	+0.04
1,1-Dichloroethane	1.97	2.52	+0.55
1,2-Butylene oxide	2.75	1.39	-1.36
1,2-Dichloroethane	1.05	1.71	+0.66
2 Nitropropane	0.20	0.20	-
Carbon Tetrachloride	<0.01	0.02	+0.02
Chloroethane	1.06	1.10	+0.04
Chloroform	0.01	0.12	+0.11
Hexachloroethane	<0.01	<0.01	-
Toluene	0.02	0.02	-
Trichloroethylene	0.02	0.06	+0.04
Vinyl Chloride	0.22	0.55	+0.33
Vinylidene Chloride	-	0.04	+0.04
Total	9.49	10.08	+0.59

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, December 20, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application and proposed permit are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).

Additional copies may be reviewed at the Calcasieu Public Library, Westlake Branch, 937 Mulberry Street, Westlake, LA 70669 and the Calcasieu Public Library, Sulphur Regional Branch, 1160 Cypress Street, Sulphur, LA 70663.

Inquiries or requests for additional information regarding this permit action should be directed to Scott J. Templet, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3059.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at [deqmailistrequest@la.gov](mailto:deqmailistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 1255, Permit Number 2695-V1, and Activity Number PER20070008.**

Scheduled Publication Date: November 16, 2007

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**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PPG Industries Inc. - Lake Charles Complex  
Agency Interest No.: 1255  
PPG Industries Inc.  
Lake Charles, Calcasieu Parish, Louisiana**

**I. Background**

PPG Industries Inc. - Lake Charles Complex, an existing chemical manufacturing facility. PPG Industries Inc. - Lake Charles Complex -- TE-2 Unit currently operates under Permit No. 2695-V0, issued February 21, 2005. Administrative Amendments to this permit were issued on February 6, 2006, February 10, 2006, and October 4, 2006.

This is the Part 70 operating permit for the TE-2 Unit.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by PPG Industries Inc. on March 15, 2007 requesting a Part 70 operating permit. Additional information dated June 26, 2007, August 21, 2007, September 18, 2007, October 3, 2007, and October 4, 2007 was also received.

**III. Description**

The facility consists of three highly integrated units as described below.

- Chlor/Alkali: These areas of the complex produce chlorine, caustic, and hydrogen through the electrolysis of brine.
- Derivatives: In this area chlorine is combined with ethylene and ethylene derivatives to produce chlorinated hydrocarbons and muriatic acid (hydrochloric acid).
- Silicas: In this area sand is heated with either caustic or soda ash to produce sodium silicate, from which different grades of products are produced.

Electricity and steam required for the facility operations are produced in the Power/utilities area. Transfer operations for Complex raw materials and products involve the transfer to and from trucks, ships, barges, tank car, hopper car, and drums. Raw materials and products are also transferred via pipeline.

Methyl Chloroform (MC) (also known as 1,1,1-trichloroethane) is manufactured in the TE-2 Unit. MC is produced in a three-step process that begins by the thermal cracking of ethylene dichloride (EDC) to produce both vinyl chloride monomer (VCM) and hydrogen chloride (HCl) which is done in the VCM section of the TE-2 plant. The VCM and HCl are then reacted and combined to form 1,1-dichloroethane (DCE) which is done in the DCE section of the TE-2 plant. The DCE is further reacted with chlorine to form MC in the MC section of the TE-2 plant. The TE-2 plant also includes an oxyhydrochlorination ethylene dichloride (OHC-EDC) section that converts the HCl produced in the MC section into EDC which is fed back to the VCM section.

PPG proposes the following changes to this permit:

- Add PM<sub>10</sub> and VOC emissions (along with speciation) to the Cooling Tower (EPN 533C).

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- Delete sources 356 – TE-2 No 1 DME Storage Tank & 357 – TE-2 No 2 DME Storage Tank

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	2.08	2.15	+0.07
SO <sub>2</sub>	0.16	0.16	-
NO <sub>x</sub>	26.40	26.40	-
CO	22.18	22.18	-
VOC *	23.59	24.32	+0.73

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,1,2-Trichloroethane	2.07	2.19	+0.12
1,1,2,2-Tetrachloroethane	0.12	0.16	+0.04
1,1-Dichloroethane	1.97	2.52	+0.55
1,2-Butylene oxide	2.75	1.39	-1.36
1,2-Dichloroethane	1.05	1.71	+0.66
2 Nitropropane	0.20	0.20	-
Carbon Tetrachloride	<0.01	0.02	+0.02
Chloroethane	1.06	1.10	+0.04
Chloroform	0.01	0.12	+0.11
Hexachloroethane	<0.01	<0.01	-
Toluene	0.02	0.02	-
Trichloroethylene	0.02	0.06	+0.04
Vinyl Chloride	0.22	0.55	+0.33
Vinylidene Chloride	-	0.04	+0.04
Total	9.49	10.08	+0.59

<u>Other VOC (TPY):</u>		
Ethylene	14.26	11.49

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**NON-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

Pollutant	Before	After	Change
1,1,1-Trichloroethane	6.82	6.76	-0.06
Ammonia	0.30	0.30	-
Chlorine	0.18	0.18	-
Copper (and Compounds)	0.01	0.01	-
Hydrochloric Acid	0.16	0.16	-
Tetrachloroethylene	-	0.04	+0.04
Total	7.47	7.45	-0.02

**Permit Shield**

Per 40 CFR 70.6(f) and LAC 33:III.507.I, a permit shield has been determined for the referenced facility as follows:

1. TCE/Tetra Tank (EPN 353) is not required to comply with NSPS Subpart Kb – superseded by HON Subpart G.
2. TCE/Tetra Tank (EPN 353) is exempt from the control requirements of LAC 33:III.2103 – true vapor pressure of the stored liquid is less than 1.5 psia.
3. Compliance with 40 CFR 63 Subparts A and H constitutes compliance with 40 CFR 60 Subpart VV, 40 CFR 61 Subparts F and V, and LAC 33:III.2122 for fugitive emissions in the TE-2 Unit as determined in the Streamlined Equipment Leak Monitoring Program.
4. Storage Tanks 355, 356, 357 are not subject to HON Subparts F and G – the capacity of each tank is less than 38 cubic meters.
5. Waste stream of the MC Ash Liquor Tank (EPN 528) is exempt from the requirements of LAC 33:III.2153 – it is subject to HON Subpart G.
6. Cooling Tower 533C is not subject to 40 CFR 63 Subpart Q – these cooling towers do not use chromium-based water treatment chemicals on or after September 8, 1994.
7. The Stab Tank Farm Carbon Bed (EPN 557) is not subject to HON Subparts F and G per 40 CFR 63.100(f)(11) – it operates, in maximum, 240 hours per year in organic HAP service. Only emissions related to startups, shutdowns, and malfunctions from this emission point are subject to 40 CFR 63 Subpart A.
8. Compliance with HON constitutes compliance with LAC 33:III.2115 for the following process vents: 69A-T-110, 69A-T-122, 66B-T-415, 66B-T-416, 66B-T-417, 66B-T-418, 69A-T-125, 69A-T-126, 69A-T-127, 69A-T-128, and 69A-T-4.
9. Storage Tanks 66B-T-429 and 66B-T-430 are not subject to HON – the capacity of each tank is less than 38 cubic meters.

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10. The process vents 69A-C-106 and 69A-C-107 are not subject to NSPS Subpart NNN – they were constructed before the applicability date of December 30, 1983. (They were built in 1978.)
11. Process vents 69A-C-102, 69A-C-105, 69A-S-101, 69A-S-102, 69A-S-103, 69A-S-104, and 69A-S-105 are not subject to HON Subpart G – the stream from each of these vents is transferred to another process
12. Process vents 69A-C-102, 69A-C-105, 69A-S-101, 69A-S-102, 69A-S-103, 69A-S-104, and 69A-S-105 are not subject to LAC 33:III.2147 – there is no vent stream within the meaning of LAC 33:III.2147.B.
13. The process vents 69A-C-103, 66B-C-402, 69B-C-67130, and 69A-C-108 are not subject to NSPS Subpart NNN – they were constructed before the applicability date of December 30, 1983. (They were built in 1978.)
14. The process vents 69A-C-103, 66B-C-402, 69B-C-67130, and 69A-C-108 are exempt from the requirements of LAC 33:III.2147 per LAC 33:III.2147.A.2.g – the vents are subject to HON.
15. The reactor system 69A-R-101 is not subject to NSPS Subpart RRR – it was constructed before the applicability date of June 29, 1990. (It was built in 1978.)
16. The reactor system 69A-R-101 is not subject to HON Subpart G – the stream from this vent is transferred to another process.
17. The reactor system 69A-R-101 is not subject to LAC 33:III.2147 – there is no vent stream within the meaning of LAC 33:III.2147.B.
18. The reactor systems 69A-R-102 and 69A-R-401 are not subject to NSPS Subpart RRR – they were constructed before the applicability date of June 29, 1990. (They were built in 1978.)
19. The reactor systems 69A-R-102 and 69A-R-401 are not subject to LAC 33:III.2147 – There is not vent stream within the meaning of LAC 33:III.2147.B.

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

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**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was not submitted to US EPA Region VI because this draft permit is only subject to a 30 day state-only public notice per LAC 33:III.5107.D.1.a. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard (NAAQS))
1,1,2-Trichloroethane	annual	4.168 ug/m <sup>3</sup>	6.25 ug/m <sup>3</sup>
1,2-Dichloroethane	annual	3.56 ug/m <sup>3</sup>	3.85 ug/m <sup>3</sup>
Chloroform	annual	0.061 ug/m <sup>3</sup>	4.30 ug/m <sup>3</sup>
Vinyl Chloride	annual	0.279 ug/m <sup>3</sup>	1.19 ug/m <sup>3</sup>

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**VIII. General Condition XVII Activities**

(Reported as EPN 525i)

ID No.	Work Activity	PM <sub>10</sub>	VOC	Emission Rates - tons	
				Non - VOC	TAPs
<b>Operations</b>					
O1	Sampling	0.02	EDC=0.01	0.03	MC
O2	Clearing Catalyst Port to Add Catalyst	0.02			
O3	Emissions from Disconnecting Loading/Unloading Hoses	<0.01			
O4	Clearing Filters to Replace Cartridges	<0.01		<0.01	MC
O5	Portable Drier/Decolorizer	0.01			
O6	Emissions from Depressurization MC Reactor	0.01		0.24	HCl=0.23 MC=0.01
O7	Emissions from MC Dryer Regenerations			3.31	MC
O8	Emissions from Carbon Bed Use	0.04	EDC=0.02		
<b>Maintenance</b>					
M1	Clearing Pumps	<0.01		<0.01	MC
M2	Clearing Piping	<0.01		<0.01	MC
M3	Clearing Instruments	<0.01		<0.01	MC
M4	Clearing Tanks	0.15	EDC=0.04 VT=0.03 AT=0.01	0.09	MC
M6	Clearing for OHC Section Outages	0.06			
M7	Clearing for MC Section Unit Outages	0.04	VT=0.01	0.02	MC
M8	Clearing for DCE Section Unit Outages	0.84			
M9	Clearing for VC Section Unit Outages	0.03	EDC=0.02 VT=0.01	<0.01	HCl
M11	Emissions from Manually Measuring Tank Levels, Obtaining Samples from a Theft Hatch, or Prooftesting	<0.01		<0.01	MC
M14	Decoking	0.02			
M15	Lift Station Cover Maintenance	0.09	EDC=0.03 VT=0.01	0.43	MC
M16	Emissions from Charging Catalyst to OHC Reactors	0.11		0.01	Copper
M17	Emissions during Repairs of Catalyst Fluidization Control Devices	0.12		0.01	Copper
Total		0.25	1.31	4.14	

MC = Methyl Chloroform (or 1,1,1-Trichloroethane)

HCl = Hydrochloric Acid

EDC = Ethylene Dichloride (or 1,2-Dichloroethane)

VT = Vinyl Trichloride (or 1,1,2-Trichloroethane)

AT = Acetylene Tetrachloride (or 1,1,2,2-Tetrachloroethane)

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**IX. Insignificant Activities**

ID No.:	Description	Citation
	OHC Sample Pot (85gal)	LAC 33:III.501.B.5.A.2.
	Betz Still Aid Storage (1,000 gal)	LAC 33:III.501.B.5.A.3.
	Thermalane Storage (6.834 gal)	LAC 33:III.501.B.5.A.3.
	Portable Kerosene Heaters (<1 MM BTU/hr)	LAC 33:III.501.B.5.A.5.
	Emissions from Lab Equipment / Vents	LAC 33:III.501.B.5.A.6.
	TE-2 Drum Washing Station (<55 gal)	LAC 33:III.501.B.5.A.7.
	# Emissions from Process Stream / Vent Analyzers	LAC 33:III.501.B.5.A.9.
	Caustic Tank (1,025 gal)	LAC 33:III.501.B.5.A.10.
	Catalyst Charging Operations	LAC 33:III.501.B.5.A.11.
	Portable Cooling Tower	LAC 33:III.501.B.5.A.12.

# includes: DCE Reactor GC, No. 4 OHC Reactor Vent GC, MC Reactor GC, Product Still GC, Light Still Bottoms GC, MC Product Moisture, & MC Reactor Cl<sub>2</sub> Analyzer

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PPG Industries Inc. - Lake Charles Complex

Agency Interest No.: 1255

PPG Industries Inc.

Lake Charles, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

		LAC 33:III Chapter																		
ID No.:	Description	5▲	509	9	11	13	15	2103	2104*	2111	2113	2122	2147	2153	22	29*	51*	53*	56	59*
UNF 007	TE-2 Unit			1	1	1				1						1	1	1	1	1
EQT 432	15: TE-2 VCFurnace				1	1	1													
EQT 433	20: OHC Thermalane Heater				1	1	1													
EQT 434	305: MC/DCE Scrubber															2				1
EQT 435	306: No 4 OHC Scrubber															2				1
FUG 004	349A: TB-2 Unit Fugitive Equipment Leaks																			1
EQT 436	353: TE-2 TCE/Tetra Tank Scrubber								2											1
EQT 437	355: TE-2 No 1 BLM Storage Tank							1								2				1
EQT 440	358: Byproduct/Slab Storage Tank							2												1
EQT 441	528: MC Ash Liquor Tank																3			1
EQT 442	529: No 4 OHC Reactor Fluidization Scrubber								1								2			1
EQT 443	530: No 4 OHC Catalyst Box Scrubber								1								2			1
EQT 444	533C: TE-2 Cooling Tower																			1
EQT 445	557: Slab Tank Farm Carbon Bed																			1
EQT 446	69A-T-110: No 1 DCE Storage Tank																			1
EQT 447	69A-T-122: No 2 DCE Storage Tank																			2
EQT 448	69A-T-125: No 1 DOL/SBL Storage Tank																			2
EQT 449	69A-T-126: No 2 DOL/SBL Storage Tank																			2
EQT 450	69A-T-127: No 2 BLM Storage Tank																			2
EQT 451	69A-T-128: No 3 BLM Storage Tank																			2
EQT 452	69A-T-132: Stabilizing Tank 4															1				1
EQT 453	69A-T-133: Stabilizing Tank 3															1				1

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ID No.:	Description	LAC 33:III:Chapter																			
		5▲	509	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	2153	22	29*	51*	53*	56	59*
EQT 454	69A-T-134: Stabilizing Tank 2									1											
EQT 455	69A-T-135: Day Tank 3									1											
EQT 456	69A-T-136: Day Tank 2									1											
EQT 457	69A-T-137: Day Tank 1									1											
EQT 458	69A-T-143: Stabilizing Tank 1									1											
EQT 459	69A-T-4: NRE/NEE/MC Storage Tank																2				
EQT 460	66B-T-413: RP Tank																2				
EQT 461	66B-T-415: Light Still Product Transfer Storage Tank																2				
EQT 462	66B-T-416: Light Still Product Transfer Storage Tank																2				
EQT 463	66B-T-417: EDC Storage Tank 1																2				
EQT 464	66B-T-418: EDC Storage Tank 2																2				
EQT 465	66B-T-429: No 1 Light Storage Tank										1										
EQT 466	66B-T-430: No 2 Light Storage Tank										1										
EQT 467	69A-C-106: HP HCl Absorber System																	2			
EQT 468	69A-C-103: EDC Heavies Still System																	2			
EQT 469	66B-C-67130: EDC Lights Still																	2			
EQT 470	66B-C-402: EDC DH Still																	2			
EQT 471	69A-R-102: MC Reactor System																	2			
EQT 472	69A-R-401: No 4 OHCl Reactor System																	2			
EQT 473	69A-T-129: NTE Storage Tank																1				
EQT 474	69A-C-108: MC Product Still System																	2			

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

PPG Industries Inc. - Lake Charles Complex  
 Agency Interest No.: 1255  
 PPG Industries Inc.  
 Lake Charles, Calcasieu Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																			
		5▲	509	9	11	13	15	2103	2104*	2111	2113	2115	2122	2147	2153	22	29*	51*	53*	56	59*
EQT 475	69A-C-105: VCI Stripper System																				
EQT 476	69A-R-101: DCE Reactor System																				
EQT 477	69A-C-102: VC-HCl Still System																				
EQT 478	69A-C-107: DCE Stripper Recycle System																				
EQT 479	69A-S-101: No 1 VC Dopp System																				
EQT 480	69A-S-103: DCE Dopp System																				
EQT 481	69A-S-104: No 2 VC Dopp System																				
EQT 482	69A-S-102: No 1 DCE Flasher System																				
EQT 483	69A-S-105: No 2 DCE Flasher System																				
EQT 484	69A-H-101: VC Furnace System (Tube Side)																				
CRG 002	Vents																				
CRG 003	Storage Tanks																				

\* The regulations indicated above are State Only Regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank -- The regulations clearly do not apply to this type of emission source.

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PPG Industries Inc. - Lake Charles Complex  
 Agency Interest No.: 1255  
 PPG Industries Inc.  
 Lake Charles, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	Kb	VV	NNN	RRR	KKK	III	A	F	M	V	FF	A	F	G	H	Q	DDDDD	64	68	82				
UNF 007	TE-2 Unit	1							1	1	1	2	1	1	1	1	1	1		1	1	3				
EQT 432	15: TE-2 V/C Furnace																									
EQT 433	20: OHC Thermalane Heater																									
EQT 434	305: MC/DCE Scrubber																									
EQT 435	306: No 4 OHC Scrubber																									
FUG 004	349A: TE-2 Unit Fugitive Equipment Leaks	2							2	2																
EQT 436	353: TE-2 TCE/Tetra Tank Scrubber	3																								
EQT 437	355: TE-2 No 1 BLM Storage Tank																									
EQT 440	358: Byproduct/Slab Storage Tank																									
EQT 441	528: MC Ash Liquor Tank																									
EQT 442	529: No 4 OHC Reactor Fluidization Scrubber																									
EQT 443	530: No 4 OHC Catalyst Box Scrubber																									
EQT 444	533C: TE-2 Cooling Tower																									
EQT 445	557: Slab Tank Farm Carbon Bed																									
EQT 446	69A-T-110: No 1 DCE Storage Tank																									
EQT 447	69A-T-122: No 2 DCE Storage Tank																									
EQT 448	69A-T-125: No 1 DOL/SBL Storage Tank																									
EQT 449	69A-T-126: No 2 DOL/SBL Storage Tank																									
EQT 450	69A-T-127: No 2 BLM Storage Tank																									
EQT 451	69A-T-128: No 3 BLM Storage Tank																									
EQT 452	69A-T-132: Stabilizing Tank 4																									
EQT 453	69A-T-133: Stabilizing Tank 3																									

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

PPG Industries Inc. - Lake Charles Complex

Agency Interest No.: 1255

PPG Industries Inc.

Lake Charles, Calcasieu Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	Kb	VV	NNN	RRR	KKK	III	A	F	M	V	FF	A	F	G	H	Q	DDDDD	64	68	82
EQT 454	69A-T-134: Stabilizing Tank 2																					
EQT 455	69A-T-135: Day Tank 3																					
EQT 456	69A-T-136: Day Tank 2																					
EQT 457	69A-T-137: Day Tank 1																					
EQT 458	69A-T-143: Stabilizing Tank 1																					
EQT 459	69A-T-4: NRE/NEE/MC Storage Tank																					
EQT 460	66B-T-413: RP Tank																					
EQT 461	66B-T-415: Light Still Product Transfer Storage Tank																					
EQT 462	66B-T-416: Light Still Product Transfer Storage Tank																					
EQT 463	66B-T-417: EDC Storage Tank 1																					
EQT 464	66B-T-418: EDC Storage Tank 2																					
EQT 465	66B-T-429: No 1 Light Storage Tank																					
EQT 466	66B-T-430: No 2 Light Storage Tank																					
EQT 467	69A-C-106: HP HCl Absorber System																					
EQT 468	69A-C-103: EDC Heavies Still System																					
EQT 469	66B-C-67130: EDC Lights Still																					
EQT 470	66B-C-402: EDC DH Still																					
EQT 471	69A-R-102: MC Reactor System																					
EQT 472	69A-R-401: No 4 OHCl Reactor System																					
EQT 473	69A-T-129: NTE Storage Tank																					
EQT 474	69A-C-108: MC Product Still System																					
EQT 475	69A-C-105: VC Stripper System																					

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

PPG Industries Inc. - Lake Charles Complex  
 Agency Interest No.: 1255  
 PPG Industries Inc.  
 Lake Charles, Calcasieu Parish, Louisiana

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60 NSPS			40 CFR 61			40 CFR 63 NESHAP			40 CFR											
		A	Kb	VV	NNN	RRR	KKK	III	A	F	M	V	FF	A	F	G	H	Q	DDDDD	64	68	82
EQT 476	69A-R-101: DCE Reactor System																					
EQT 477	69A-C-102: VC-HCl Still System																					
EQT 478	69A-C-107: DCE Stripper Recycle System																					
EQT 479	69A-S-101: No 1 VC Dopp System																					
EQT 480	69A-S-103: DCE Dopp System																					
EQT 481	69A-S-104: No 2 VC Dopp System																					
EQT 482	69A-S-102: No 1 DCE Flasher System																					
EQT 483	69A-S-105: No 2 DCE Flasher System																					
EQT 484	69A-H-101: VC Furnace System (Tube Side)																					
CRG 002	Vents																					
CRG 003	Storage Tanks																					

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- 2 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 3 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank - The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PPG Industries Inc. - Lake Charles Complex**  
**Agency Interest No.: 1255**  
**PPG Industries Inc.**  
**Lake Charles, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
TE-2 Unit (UNF 007)	40 CFR 82 Subpart F Protection of Stratospheric Ozone 40 CFR 61 Subpart FF NESHAP for Benzene Waste Operations	DOES NOT APPLY. No refrigeration unit subject to 40 CFR 82 Subpart F is included in this permit. EXEMPT. Exempt from the requirements of 40 CFR 61.342(b) and (c).
EPN 305 & 306 (EQT 434, 435)	40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater LAC 33:II.2115.A Waste Gas Disposal	DOES NOT APPLY. Emissions are not from a process vent stream. EXEMPT. Exempt from control requirements per LAC 33:III.2115.H
EPN 353 (EQT 436)	LAC 33:II.2103 Storage of Volatile Organic Compounds 40 CFR 60 Subpart Kb Petroleum Liquid Storage Vessels	EXEMPT. Vapor pressure is less than 1.5 psia
EPN 355 (EQT 437)	40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	DOES NOT APPLY. Due to Regulation Overlap. Compliance with HON Subpart G constitutes compliance with this provision.
EPN 358 (EQT 440)	LAC 33:II.2103 Storage of Volatile Organic Compounds	DOES NOT APPLY. Tank capacity is less than 38 cubic meters (m <sup>3</sup> ).
EPN 528 (EQT 441)	LAC 33:II.2153 Limiting VOC Emissions from Industrial Wastewater	EXEMPT. Vapor pressure is less than 1.5 psia.
EPN 529 (EQT 442)	40 CFR 61 Subpart F NESHAP for Vinyl Chloride 40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater LAC 33:II.2115 Waste Gas Disposal	DOES NOT APPLY. VOC concentration < 1,000 ppmw DOES NOT APPLY. Not in Vinyl Chloride service. DOES NOT APPLY. Batch operation. EXEMPT. Exempt from control requirements per LAC 33:III.2115.H.1.c. (VOC emissions are less than 100 lbs in any 24-hr period.)

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**PPG Industries Inc. - Lake Charles Complex**  
 Agency Interest No.: 1255  
**PPG Industries Inc.**  
**Lake Charles, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EPN 530 (EQT 443)	40 CFR 61 Subpart F NESHAP for Vinyl Chloride LAC 33:III.2115 Waste Gas Disposal	DOES NOT APPLY. Not in Vinyl Chloride service.
EPN 533C (EQT 444)	40 CFR 63 Subpart Q NESHAP for Industrial Process Cooling Towers	EXEMPT. Exempt from control requirements per LAC 33:III.2115.H.1.c. (VOC emissions are less than 100 lbs in any 24-hr period).
EPN 556 (EQT 445)	40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater LAC 33:III.2115 Waste Gas Disposal	DOES NOT APPLY. Does not use chromium-based water treatment chemicals.
Process Vents (CRG 002)	LAC 33:III.2115 Waste Gas Disposal	DOES NOT APPLY. Per 40 CFR 63.100(f)(1) Does not operate over 240 hrs per year.
EPN 66B-T-413 (EQT 460)	LAC 33:III.2115 Waste Gas Disposal	EXEMPT. Exempt from control requirements per LAC 33:III.2115.H.1.c. (VOC emissions are less than 100 lbs in any 24-hr period).
EPN 66B-T-429 & 66B-T-430 (EQT 465, 466)	40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater	EXEMPT. Due to Regulation Overlap. Compliance with HON Subpart G constitutes compliance with this provision.
EPN 69A-C-106 & 69A-C-107 (EQT 467, 478)	40 CFR 60 Subpart NNN NSPS for VOC Emissions from the SOCMI Distillation Operations	DOES NOT APPLY. Tank capacity is less than 38 cubic meters (m <sup>3</sup> ).
		DOES NOT APPLY. Constructed before December 30, 1983. Vent does not contain VOC (contains HCl)

## LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**PPG Industries Inc. - Lake Charles Complex**  
**Agency Interest No.: 1255**  
**PPG Industries Inc.**  
**Lake Charles, Calcasieu Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EPN 69A-C-102, 69A-C-105, 69A-S- 101, 69A-S-102, 69A-S-103, 69A-S- 104, 69A-S-105 (EQT 477, 475, 479, 482, 480, 481, 483)	40 CFR 60 Subpart NNN NSPS for VOC Emissions from the SOCMI Distillation Operations 40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater LAC 33.III.2147. Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	DOES NOT APPLY. Constructed before December 30, 1983. DOES NOT APPLY. Gas stream is transferred to another process. DOES NOT APPLY. No vent stream within the meaning of LAC 33.III.2147.B.
EPN 69A-C-103, 66B-C-402, 66B-C- 67730, 69A-C-108 (EQT 468, 469, 470, 474)	40 CFR 60 Subpart NNN NSPS for VOC Emissions from the SOCMI Distillation Operations LAC 33.III.2147. Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	DOES NOT APPLY. Constructed before December 30, 1983. EXEMPT. Exempt per LAC 33.III.2147.A.2.g
EPN 69A-R-101 (EQT 476)	40 CFR 60 Subpart RRR NSPS for VOC Emissions from the SOCMI Reactor Processes 40 CFR 63 Subpart G HON for Process Vents, Storage Vessels, Transfer Operations, and Wastewater LAC 33.III.2147. Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	DOES NOT APPLY. Constructed before June 29, 1990. DOES NOT APPLY. Gas stream is transferred to another process. DOES NOT APPLY. No vent stream within the meaning of LAC 33.III.2147.B.
EPN 69A-R-102, 69A-R-401 (EQT 471, 472)	40 CFR 60 Subpart RRR NSPS for VOC Emissions from the SOCMI Reactor Processes LAC 33.III.2147. Limiting VOC Emissions from SOCMI Reactor Processes and Distillation Operations	DOES NOT APPLY. Constructed before June 29, 1990. EXEMPT. Exempt per LAC 33.III.2147.A.2.g

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**APPENDIX A**  
**PART 70 SPECIFIC CONDITIONS**

**PPG Industries Inc. - Lake Charles Complex**  
**Agency Interest No.: 1255**  
**PPG Industries Inc.**  
**Lake Charles, Calcasieu Parish, Louisiana**

Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the applicable fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- a. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (40 CFR 63 Subpart H) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
- b. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
- c. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on January 31 and July 31, to cover the periods July 1 through December 31 and January 1 through June 30, respectively. The semiannual reports shall include any monitoring performed within the reporting period.
- d. Permittee shall maintain an area monitoring program, as specified in 40 CFR 61.65(b)(8), for detection of vinyl chloride leaks within areas of the TE-2 Unit subject to 40 CFR 61 Subpart F – National Emission Standard for Vinyl Chloride.

<b>Unit or Plant Site</b>	<b>Programs Being Streamlined</b>	<b>Stream Applicability</b>	<b>Overall Most Stringent Program</b>
TE-2 Unit	40 CFR 63 Subpart H – HON	≥ 5% VOHAP	40 CFR 63 Subpart H – HON
	40 CFR 61 Subpart F – NESHAP for Vinyl Chloride	≥ 10% VCM	
	40 CFR 61 Subpart V – NESHAP for Equipment Leaks	≥ 10% VCM	
	40 CFR 60 Subparts VV – NSPS for Equipment Leaks of VOC in SOCMI or Refineries	≥ 10% VOC	
	LAC 33:III.2122 – Louisiana Fugitive Emission Control	≥ 10% VOC	
	LAC 33:III.Chapter 51 – LA MACT for Non-HON Sources	≥ 5% VOTAP (Class I + II)	

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

## 40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
  1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.  
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

## 40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  - 5. changes in emissions would not qualify as a significant modification; and
  - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
  - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

## 40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

## **40 CFR PART 70 GENERAL CONDITIONS**

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated March 15, 2007. Additional information dated June 26, 2007, August 21, 2007, September 18, 2007, October 3, 2007, and October 4, 2007 was also received.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
  - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
    - 1. Report by June 30 to cover January through March
    - 2. Report by September 30 to cover April through June
    - 3. Report by December 31 to cover July through September
    - 4. Report by March 31 to cover October through December

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1255 PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

Also Known As:	ID	Name	User Group	Start Date
LAO4917	ADV#	PPG Industries Inc - Lake Charles Complex	Asbestos	01-24-2003
0520-00004	CDS Number	PPG Industries Inc	CDS Number	05-27-1993
25-0730780	Federal Tax ID	PPG Ind Inc	Federal Tax ID	11-21-1999
LAD608086506	Hazardous Waste Notification	GPPRA Baselines	Hazardous Waste Permitting	11-19-1980
PMT/PCA	Hazardous Waste Permitting	GPPR Baselines	Hazardous Waste Permitting	10-01-1997
00731	Inactive & Abandoned Sites	PPG Industries	Inactive & Abandoned Sites	10-01-1997
	Inactive & Abandoned Sites	PPG Canal By Pass Canal	Inactive & Abandoned Sites	11-01-1979
	Inactive & Abandoned Sites	PPG	Inactive & Abandoned Sites	03-07-1989
LA0000761	LPDES #	LPDES #	LPDES Permit #	05-22-2003
LAR10B394	LPDES #	LPDES #	LPDES Permit #	03-19-2003
LAR10C834	LPDES #	LPDES #	LPDES Permit #	01-06-2005
WP1470	LWDFPS #	LWDFPS Permit #	LWDFPS Permit #	06-25-2003
LA-2257-L-01	Priority 1 Emergency Site	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
2257	X-Ray Registration Number	Radioactive Material License	Radiation License Number	11-03-2000
GD-019-0495	PPG Industries Inc	PPG Industries Inc	Radiation X-ray Registration Number	11-21-1999
GD-019-0495	PPG Industries Inc	PPG Industries Inc	Solid Waste	01-08-2002
GD-019-0495	SW ID#	SW ID#	Solid Waste	01-08-2002
11500	Waste Tech Service Inc	PPG Industries Inc	Solid Waste Facility No.	04-30-2001
34628	PPG Industries Inc	PPG Industries Inc	TEMPO Merge	10-23-2001
38674	PPG Industries Inc	PPG Industries Inc	TEMPO Merge	03-11-2001
38797	PPG Industries Inc	PPG Industries Inc Industrial Chemicals Div	TEMPO Merge	02-22-2001
48235	PPG Industries Incinerator 5	PPG Industries Incinerator 5	TEMPO Merge	03-11-2001
5791	TRI #	Water Quality Certification #	Toxic Release Inventory	12-04-2000
70669PPGNDCOLUM	Water Quality Certification #	Water Quality Certification #	Water Certification	07-14-2004
WQC 980302-16				12-22-1998
			Main Phone:	337-708-4326

Physical Location:  
 PO Box 1000  
 (portion of)  
 Lake Charles, LA 70602-1000

Mailing Address:  
 PO Box 1000  
 Lake Charles, LA 70602-1000

Location of Front Gate:  
 30° 13' 45" 84 hundredths latitude, 93° 17' 8" 23 hundredths longitude, Coordinate Method: GPS Code (Pseudo Range) Precise Position, Coordinate Datum: NAD27

General Information

AI ID: 1255 PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Lyndee Brassieur	PO Box 1000 Lake Charles, LA 706021000	LBRASSIEUR@PPC	Emission Inventory Contact for
	Lyndee Brassieur	PO Box 1000 Lake Charles, LA 706021000	3377084744 (WP)	Emission Inventory Contact for
	Jason Campbell	PO Box 1000 Lake Charles, LA 706021000	3377084450 (WP)	Water Permit Contact For
	Esther Liggio	PO Box 1000 Lake Charles, LA 706021000	3377084326 (WP)	Haz. Waste Billing Party for
	Jonathan Manns	PO Box 1000 Lake Charles, LA 706021000	3377084744 (WP)	Responsible Official for
	John May	PO Box 1000 Lake Charles, LA 70602	3377084203 (WP)	Radiation Safety Officer for
	John May	PO Box 1000 Lake Charles, LA 70602	3377084203 (WP)	Radiation Contact For
	Gerald Perry	PO Box 1000 Lake Charles, LA 706021000	3377084370 (WP)	Solid Waste Billing Party for
	Linda Reinhhardt	PO Box 1000 Lake Charles, LA 706021000	3377084401 (WP)	Accident Prevention Contact for
	Linda Reinhhardt	PO Box 1000 Lake Charles, LA 706021000	3377084401 (WP)	Accident Prevention Billing Party for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Owns
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Air Billing Party for
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Water Billing Party for
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Radiation License Billing Party for
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Radiation Registration Billing Party for
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Operates
	PPG Industries Inc	PO Box 1000 Lake Charles, LA 706021000	3374801960 (WP)	Emission Inventory Billing Party

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 29-3247 or email your changes to facupdate@la.gov.

**INVENTORIES**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-Y1

Air - Title V Regular Permit Minor Mod

## Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
TE-2 Unit						
EQT0432	15 - TE-2 VC Furnace		60.3 MM BTU/hr		8760 hr/yr (All Year)	
EQT0433	20 - OHC Thermalane Heater		12.42 MM BTU/hr		200 hr/yr (All Year)	
EQT0434	305 - MC/DCE Scrubber				8760 hr/yr (All Year)	
EQT0435	305 - No 4 OHC Scrubber	435250 gallons			49 hr/yr (All Year)	
EQT0436	353 - TE-2 TCE/Tetra Tank Scrubber	4136 gallons			8760 hr/yr (All Year)	
EQT0437	355 - TE-2 No 1 BLM Storage Tank	33101 gallons			8760 hr/yr (All Year)	
EQT0440	358 - Byproduct/Slab Storage Tank	1200 gallons			8760 hr/yr (All Year)	
EQT0441	528 - MC Ash Liquor Tank				8760 hr/yr (All Year)	
EQT0442	529 - No 4 OHC Reactor Fluidization Scrubber				336 hr/yr (All Year)	
EQT0443	530 - No 4 OHC Catalyst Box Scrubber				36.5 hr/yr (All Year)	
EQT0444	533C - TE-2 Cooling Tower				8760 hr/yr (All Year)	
EQT0445	557 - Slab Tank Farm Carbon Bed	797695 gallons			240 hr/yr (All Year)	
EQT0446	69A-T-110 - No 1 DCE Storage Tank	135000 gallons				
EQT0447	69A-T-122 - No 1 DCE Storage Tank	135000 gallons				
EQT0448	69A-T-125 - No 1 DOL/SBL Storage Tank	16380 gallons				
EQT0449	69A-T-126 - No 2 DOL/SBL Storage Tank	16880 gallons				
EQT0450	69A-T-127 - No 2 BLM Storage Tank	16880 gallons				
EQT0451	69A-T-128 - No 3 BLM Storage Tank	16880 gallons				
EQT0452	69A-T-132 - Stabilizing Tank 4	101523 gallons				
EQT0453	69A-T-133 - Stabilizing Tank 3	101523 gallons				
EQT0454	69A-T-134 - Stabilizing Tank 2	101523 gallons				
EQT0455	69A-T-135 - Day Tank 3	101523 gallons				
EQT0456	69A-T-136 - Day Tank 2	101523 gallons				
EQT0457	69A-T-137 - Day Tank 1	101523 gallons				
EQT0458	69A-T-143 - Stabilizing Tank 1	46161 gallons				
EQT0459	69A-T-4 - NRE/NEE/MC Storage Tank	62183 gallons				
EQT0460	66B-T-413 - RP Tank	20201 gallons				
EQT0461	66B-T-415 - Light Still Product Transfer Storage Tank	101523 gallons				

**INVENTORIES**  
**AI ID: 1255 - PPG Industries Inc - Lake Charles Complex**  
**Activity Number: PER20070008**  
**Permit Number: 2695-Y1**  
**Air - Title V Regular Permit Minor Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>TE-2 Unit</b>						
EQT0462	66B-T-416 - Light Still Product Transfer Storage Tank	101523 gallons			Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0463	66B-T-417 - EDC Storage Tank 1	101523 gallons			Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0464	66B-T-418 - EDC Storage Tank 2	101523 gallons			Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0465	66B-T-429 - No 1 Light Storage Tank	6700 gallons			Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0466	66B-T-430 - No 2 Light Storage Tank	6700 gallons			Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0467	69A-C-106 - HP HCl Absorber System				Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0468	69A-C-103 - EDC Heavies Still System				Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0469	66B-C-67130 - EDC Lights Still				Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0470	66B-C-402 - EDC DH Still				Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0471	69A-R-102 - MC Reactor System				Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0472	69A-R-401 - No 4 OHC Reactor System				Routed to EPN 345 & EPN 346 In Incinerators Area Permit	8760 hr/yr (All Year)
EQT0473	69A-T-129 - NTE Storage Tank	31848 gallons			Routed to MC Reactor and HCl System	8760 hr/yr (All Year)
EQT0474	69A-C-108 - MC Product Still System				No vent except during SSM	8760 hr/yr (All Year)
EQT0475	69A-C-105 - VC Stripper System				Routed to HCl System	8760 hr/yr (All Year)
EQT0476	69A-R-101 - DCE Reactor System				Routed to HCl System	8760 hr/yr (All Year)
EQT0477	69A-C-102 - VC-HCl Still System				Routed to HCl System	8760 hr/yr (All Year)
EQT0478	69A-C-107 - DCE Stripper Recycle System				Routed to MC Reactor and HCl System	8760 hr/yr (All Year)
EQT0479	69A-S-101 - No 1 VC Dopp System				Routed to Quench System	8760 hr/yr (All Year)
EQT0480	69A-S-103 - DCE Dopp System				Routed to Quench System	8760 hr/yr (All Year)
EQT0481	69A-S-104 - No 2 VC Dopp System				Routed to Quench System	8760 hr/yr (All Year)
EQT0482	69A-S-102 - No 1 DCE Flasher System				Routed through VC Stripper to HCl System	8760 hr/yr (All Year)
EQT0483	69A-S-105 - No 2 DCE Flasher System				Routed through VC Stripper to HCl System	8760 hr/yr (All Year)
EQT0484	69A-H-101 - VC Furnace System (Tube Side)				No Vent	8760 hr/yr (All Year)
FUG0004	349A - TE-2 Unit Fugitive Equipment Leaks					8760 hr/yr (All Year)

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
<b>TE-2 Unit</b>							
EQT0432	15 - TE-2 VC Furnace	21.5	22857	4.75	17.72	127	450
FUG0004							TPOR0149

INVENTORIES

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

## Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>TE-2 Unit</b>							
EQT0433	20 - OHC Thermalane Heater	22.83	4303	.2	.314	55.67	700
EQT0434	305 - MC/DCE Scrubber	3.2	37.2	.5	.2	50	80
EQT0435	306 - No 4 OHC Scrubber	3.9	183	1	.79	75	80
EQT0436	363 - TE-2 TCE/Tetra Tank Scrubber	10.1	119	.5	.2	8	80
EQT0437	355 - TE-2 No 1 BLM Storage Tank			.67	.35	12	65
EQT0440	358 - Byproduct/Slab Storage Tank			.03	1.33	20	80
EQT0441	528 - MC Ash Liquor Tank			.33	.09	.5	50
EQT0442	529 - No 4 OHC Reactor Fluidization Scrubber	64	3000	1	.79	60	100
EQT0443	530 - No 4 OHC Catalyst Box Scrubber	.01	2.17	2	3.14	10	
EQT0444	533C - TE-2 Cooling Tower	155.47	4.95	.26	530.93	38	85
EQT0445	557 - Stab Tank Farm Carbon Bed	4.8	6.57	.5	.02	6	55

## Relationships:

## Subject Item Groups:

ID	Group Type	Group Description
CRGD002	Common Requirements Group	CRG 002 - Process Vents
CRGD003	Common Requirements Group	CRG 003 - Storage Tanks
UNF0007	Unit or Facility Wide	UNF 007 - TE-2 Unit

## Group Membership:

ID	Description	Member of Groups
EQT0446	69A-T-110 - No 1 DCE Storage Tank	CRG000000000002
EQT0447	69A-T-122 - No 1 DCE Storage Tank	CRG000000000002
EQT0448	69A-T-125 - No 1 DOL/SBL Storage Tank	CRG000000000002
EQT0449	69A-T-126 - No 2 DOL/SBL Storage Tank	CRG000000000002
EQT0450	69A-T-127 - No 2 BLM Storage Tank	CRG000000000002
EQT0451	69A-T-128 - No 3 BLM Storage Tank	CRG000000000002
EQT0452	69A-T-132 - Stabilizing Tank 4	CRG000000000003
EQT0453	69A-T-133 - Stabilizing Tank 3	CRG000000000003
EQT0454	69A-T-134 - Stabilizing Tank 2	CRG000000000003
EQT0455	69A-T-135 - Day Tank 3	CRG000000000003
EQT0456	69A-T-136 - Day Tank 2	CRG000000000003
EQT0457	69A-T-137 - Day Tank 1	CRG000000000003
EQT0458	69A-T-143 - Stabilizing Tank 1	CRG000000000003
EQT0459	69A-T-4 - NRE/NEEMC Storage Tank	CRG000000000002
EQT0461	66B-T-415 - Light Still Product Transfer Storage Tank	CRG000000000002

**INVENTORIES**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

**Group Membership:**

ID	Description	Member of Groups
EQT0462	66B-T-416 - Light Still Product Transfer Storage Tank	CRG0000000002
EQT0463	66B-T-417 - EDC Storage Tank 1	CRG0000000002
EQT0464	66B-T-418 - EDC Storage Tank 2	CRG0000000002

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0620	Halogenated Hydrocarbons (Rated Capacity)	253	MM lb/Yr

**SIC Codes:**

2819	Industrial inorganic chemicals, nec	AI1255
2869	Industrial organic chemicals, nec	AI1255
2869	Industrial organic chemicals, nec	UNF007

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AIID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
<b>TE-2 Unit</b>															
EQT 0432 <sup>15</sup>	5.04	5.54	22.08	6.00	6.60	26.28	0.46	0.50	2.00	0.04	0.04	0.16	0.33	0.36	1.45
EQT 0433 <sup>20</sup>	1.01	1.01	0.10	1.20	1.32	0.12	0.09	0.10	0.01	0.01	<0.01	0.07	0.07	0.07	0.01
EQT 0434 <sup>305</sup>												0.05	62.22	0.22	
EQT 0435 <sup>306</sup>												555.15	1884.62	13.60	
EQT 0436 <sup>353</sup>												0.13	0.16	0.59	
EQT 0437 <sup>355</sup>												0.09	0.11	0.39	
EQT 0440 <sup>358</sup>												0.30	0.36	1.32	
EQT 0441 <sup>528</sup>												<0.001	<0.001	<0.001	
EQT 0443 <sup>530</sup>												26.86	32.23	0.49	
EQT 0444 <sup>533C</sup>												0.50		2.21	
EQT 0445 <sup>557</sup>												0.02	0.02	<0.01	
FUG 0004 <sup>349A</sup>	<0.01		<0.01									0.92	4.04		

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0434 305	1,1,1-Trichloroethane	0.49	0.59	2.14
	1,1,2-Trichloroethane	0.02	29.64	0.10
	1,1-Dichloroethane	0.02	29.64	0.10
	Chloroethane	< 0.01	< 0.01	< 0.01
	Chloroform	< 0.01	< 0.01	< 0.01
	Hydrochloric acid	0.02	3.63	0.08
	Trichloroethylene	< 0.01	< 0.01	< 0.01
	Vinyl chloride	< 0.01	< 0.01	< 0.01
	Vinylidene chloride	< 0.01	< 0.01	< 0.01
EQT 0435 306	1,1,1-Trichloroethane	1.24	2.53	0.03
	1,1,2-Trichloroethane	0.01	0.03	< 0.01
	1,1-Dichloroethane	44.13	84.94	1.08
	1,2-Dichloroethane	1.76	6.39	0.04
	Chloroethane	43.16	72.00	1.06
	Chloroform	0.50	7.30	0.01
	Ethylene	465.48	1712.30	11.40
	Hydrochloric acid	< 0.01	0.07	< 0.01
	Vinyl chloride	0.06	0.83	< 0.01
EQT 0436 353	Vinylidene chloride	0.03	0.39	< 0.01
	1,1,1-Trichloroethane	0.05	0.06	0.20
	1,1,2,2-Tetrachloroethane	0.01	0.01	0.02
EQT 0437 355	1,1,2-Trichloroethane	0.10	0.12	0.42
	1,1,1-Trichloroethane	< 0.01	< 0.01	0.01
	1,1,2,2-Tetrachloroethane	< 0.01	< 0.01	< 0.01
	1,1,2-Trichloroethane	0.01	0.01	0.04
EQT 0440 358	1,2-Epoxybutane	0.07	0.09	0.33
	1,1,1-Trichloroethane	0.01		0.04
	1,1,2,2-Tetrachloroethane	< 0.01		< 0.01
	1,1,2-Trichloroethane	0.02		0.08
EQT 0441 528	1,2-Epoxybutane	0.24		1.05
	1,1,1-Trichloroethane	< 0.001		< 0.001
	1,2-Dichloroethane	< 0.001		< 0.001
	Tetrachloroethylene	< 0.001		< 0.001
	Trichloroethylene	< 0.001		< 0.001

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0442 529	Copper (and compounds)	0.04	0.04	0.01
EQT 0443 530	1,1,2-Trichloroethane	0.29	0.34	0.01
	1,2-Dichloroethane	24.00	28.80	0.44
	Chloroethane	0.11	0.14	< 0.01
	Copper (and compounds)	0.01	0.02	< 0.01
	Ethylene	2.46	2.95	0.05
	Hydrochloric acid	< 0.01	< 0.01	< 0.01
EQT 0444 533C	1,1,2,2-Tetrachloroethane	0.01		0.04
	1,1,2-Trichloroethane	0.05		0.22
	1,1-Dichloroethane	0.13		0.55
	1,2-Dichloroethane	0.15		0.66
	Carbon tetrachloride	0.01		0.02
	Chlorine	< 0.01		0.01
	Chloroethane	0.01		0.04
	Chloroform	0.03		0.11
	Tetrachloroethylene	0.01		0.04
	Trichloroethylene	0.01		0.04
	Vinyl chloride	0.08		0.33
	Vinylidene chloride	0.01		0.04
EQT 0445 557	1,1,1-Trichloroethane	0.02		0.09
	1,1,2-Trichloroethane	< 0.01		< 0.01
	1,2-Epoxybutane	0.02		< 0.01
	2-nitro-Propane	< 0.01		< 0.01
FUG 0004 349A	1,1,1-Trichloroethane	0.97		4.25
	1,1,2,2-Tetrachloroethane	0.02		0.10
	1,1,2-Trichloroethane	0.30		1.32
	1,1-Dichloroethane	0.18		0.79
	1,2-Dichloroethane	0.13		0.57
	1,2-Epoxybutane	< 0.01		0.01
	2-nitro-Propane	0.05		0.20
	Ammonia	0.07		0.30
	Carbon tetrachloride	< 0.01		< 0.01
	Chlorine	0.04		0.17
	Chloroethane	< 0.01		< 0.01

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0004 349A	Chloroform	< 0.01		< 0.01
	Ethylene	0.01		0.04
	Hexachloroethane	< 0.01		< 0.01
	Hydrochloric acid	0.02		0.08
	Toluene	< 0.01		0.02
	Trichloroethylene	< 0.01		0.02
	Vinyl chloride	0.05		0.22
UNF 0007 UNF 007	1,1,1-Trichloroethane			6.76
	1,1,2,2-Tetrachloroethane			0.16
	1,1,2-Trichloroethane			2.19
	1,1-Dichloroethane			2.52
	1,2-Dichloroethane			1.71
	1,2-Epoxybutane			1.39
	2-nitro-Propane			0.20
	Ammonia			0.30
	Carbon tetrachloride			0.02
	Chlorine			0.18
	Chloroethane			1.10
	Chloroform			0.12
	Copper (and compounds)			0.01
	Ethylene			11.49
	Hexachloroethane			< 0.01
	Hydrochloric acid			0.16
	Tetrachloroethylene			0.04
	Toluene			0.02
	Trichloroethylene			0.06
	Vinyl chloride			0.55
	Vinyldene chloride			0.04

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**Emission Rates Notes:**

UNF 0007      1,2-Epoxybutane      Tons/Year      (also known as 1,2-butylene oxide)      Which Months: All Year

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-Y1  
 Air - Title V Regular Permit Minor Mod

**CRG002 Process Vents**

Group Members: EQT0446 EQT0447 EQT0448 EQT0449 EQT0450 EQT0451 EQT0459 EQT0461 EQT0462 EQT0463 EQT0464

- 1 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
Subpart G. [40 CFR 63.113(a)(2)] Which Months: All Year Statistical Basis: None specified Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**CRG003 Storage Tanks**

Group Members: EQT0452 EQT0453 EQT0454 EQT0455 EQT0456 EQT0457 EQT0458

- 3 [40 CFR 63.119(a)(1)] Reduce hazardous air pollutants emissions to the atmosphere either by operating and maintaining a fixed roof and internal floating roof, an external floating roof, an external floating roof converted to an internal floating roof, a closed-vent system and control device, routing the emissions to a process or fuel gas system, or vapor balancing in accordance with the requirements in 40 CFR 63.119(b), (c), (d), (e), (f), or (g) or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(1)] Operate and maintain a closed-vent system and control device meeting the requirements specified in 40 CFR 63.119(e), route the emissions to a process or a fuel gas system as specified in 40 CFR 63.119(f), vapor balance as specified in 40 CFR 63.119(g), or equivalent as provided in 40 CFR 63.121. Subpart G. [40 CFR 63.119(a)(2)] Submit an Initial Notification as required by 40 CFR 63.151(b). Subpart G. [40 CFR 63.122(a)(1)] Submit a Notification of Compliance Status as required by 40 CFR 63.152(b). Include the information specified in 40 CFR 63.122(c). Subpart G. [40 CFR 63.122(a)(2)] Submit Periodic Reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(d), (e), (f), and (g). Subpart G. [40 CFR 63.122(a)(3)] Submit, as applicable, other reports as required by 40 CFR 63.152(d). Include the information specified in 40 CFR 63.122(h). Subpart G. [40 CFR 63.122(a)(4)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records of the information specified in 40 CFR 63.123(a) through (i), as applicable. Keep the records as long as the storage vessel retains Group 1 status and is in operation. Subpart G. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.
- 10 [LAC 33:III.2103.I]
- 11 [LAC 33:III.1101.B]

**EQT0432 15: TE-2 VC Furnace**

- Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: None specified

**SPECIFIC REQUIREMENTS**

All ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

**EQT0432 15: TE-2 VC Furnace**

- 12 [LAC 33:III.131.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified
- 13 [LAC 33:III.131.C] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

**EQT0433 20: OHC Thermalane Heater**

- 15 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average  
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: None specified
- 16 [LAC 33:III.131.C] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

**EQT0434 305: MC/DCE Scrubber**

- 19 [40 CFR 63.10(d)(5)ii] Submit startup, shutdown, and malfunction report: Due semiannually (or on a more frequent basis if specified). Deliver or postmark by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). Submit report only if a startup, shutdown or malfunction occurred during the reporting period. Include a letter containing the name, title and signature of the owner or operator or other responsible official who is certifying its accuracy. This report may be submitted simultaneously with the excess emissions and continuous monitoring system performance report. Subpart A. [40 CFR 63.10(d)(5)(i)]. [40 CFR 63.10(d)(5)]
- 20 [40 CFR 63.10(d)(5)ii] Submit startup, shutdown, and malfunction report: Due within 2 working days after commencing actions during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) that are not consistent with the procedures in the startup, shutdown, and malfunction plan. Submit report by telephone call or facsimile transmission. Follow report with a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Subpart A. [40 CFR 63.10(d)(5)(ii)]. [40 CFR 63.10(d)(5)ii]

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

**EQT0434 305: MC/DCE Scrubber**

- 21 [40 CFR 63.6(e)(3)] Develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Identify in the plan all routine or otherwise predictable CMS malfunctions, as required under 40 CFR 63.8(c)(1)(i). Develop the plan by the source's compliance date for that relevant standard. Incorporate by reference into the Title V permit. [40 CFR 63.6(e)(3)]. [40 CFR 63.6(e)(3)]
- 22 [LAC 33:III.2115.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 23 [LAC 33:III.501.C.6] Flow rate > 120 gallons/min. [STATE ONLY].
- 24 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: Daily average
- Flow rate monitored by flow rate monitoring device once every 15 minutes when in use. [STATE ONLY].
- 25 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified
- Flow rate recordkeeping by electronic or hard copy as needed. Keep records on site and available for inspection. Records should include but are not limited to hours of operation when scrubbers are operated outside of specified limits. [STATE ONLY].
- 26 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by scrubbers - Determined as MACT.

**EQT0435 306: No 4 OHC Scrubber**

- 27 [40 CFR 63.10(d)(5)] Submit startup, shutdown, and malfunction report: Due semiannually (or on a more frequent basis if specified). Deliver or postmark by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). Submit report only if a startup, shutdown or malfunction occurred during the reporting period. Include a letter containing the name, title and signature of the owner or operator or other responsible official who is certifying its accuracy. This report may be submitted simultaneously with the excess emissions and continuous monitoring system performance report. Subpart A. [40 CFR 63.10(d)(5)(i)]. [40 CFR 63.10(d)(5)]
- 28 [40 CFR 63.10(d)(5)(ii)] Submit startup, shutdown, and malfunction report: Due within 2 working days after commencing actions during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) that are not consistent with the procedures in the startup, shutdown, and malfunction plan. Submit report by telephone call or facsimile transmission. Follow report with a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Subpart A. [40 CFR 63.10(d)(5)(ii)].
- 29 [40 CFR 63.6(e)(3)] Develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Identify in the plan all routine or otherwise predictable CMS malfunctions, as required under 40 CFR 63.8(c)(1)(i). Develop the plan by the source's compliance date for that relevant standard. Incorporate by reference into the Title V permit. [40 CFR 63.6(e)(3)]. [40 CFR 63.6(e)(3)]

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

**EQT0435 306: No 4 OHC Scrubber**

- 30 [LAC 33.III.2115.K]  
 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.  
 Flow rate >= 1.35 gallons/min. [STATE ONLY].  
 Which Months: All Year Statistical Basis: Daily average
- 31 [LAC 33.III.501.C.6]  
 Flow rate monitored by flow rate monitoring device once every 15 minutes. [STATE ONLY].  
 Which Months: All Year Statistical Basis: None specified
- 32 [LAC 33.III.501.C.6]  
 Flow rate recordkeeping by electronic or hard copy as needed. Keep records on site and available for inspection. Records should include but are not limited to hours of operation when scrubbers are operated outside of specified limits. [STATE ONLY].  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 33 [LAC 33.III.501.C.6]  
 Emissions are controlled by scrubbers - Determined as MACT.
- 34 [LAC 33.III.5109.A]

**EQT0436 353: TE-2 TCE/Tetra Tank Scrubber**

- 35 [40 CFR 63.123(a)]  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]  
 VOC storage data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the type(s) of VOC stored and the length of time stored.  
 Flow rate >= 6 gallons/min. [STATE ONLY].  
 Which Months: All Year Statistical Basis: Daily average
- 36 [LAC 33.III.2103.1.6]  
 Flow rate monitored by flow rate monitoring device daily. [STATE ONLY].  
 Which Months: All Year Statistical Basis: None specified
- 37 [LAC 33.III.501.C.6]  
 Flow rate recordkeeping by electronic or hard copy as needed. Keep records on site and available for inspection. Records should include but are not limited to hours of operation when scrubbers are operated outside of specified limits. [STATE ONLY].  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 38 [LAC 33.III.501.C.6]  
 Compliance with 40 CFR 63 Subparts A, F and G constitutes compliance with this requirement.
- 39 [LAC 33.III.501.C.6]
- 40 [LAC 33.III.5109.A]

**EQT0437 355: TE-2 No 1 BLM Storage Tank**

- 41 [LAC 33.III.2103.A]  
 Equip with a submerged fill pipe.  
 Determine VOC maximum true vapor pressure using the methods in LAC 33.III.2103.H.3.a-e.
- 42 [LAC 33.III.2103.H.3]  
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.
- 43 [LAC 33.III.2103.I]  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 44 [LAC 33.III.5109.A]  
 MACT is not required. Only emits Class III TAPs.

**EQT0440 358: Byproduct/Slab Storage Tank**

**SPECIFIC REQUIREMENTS**

**AI ID:** 1255 - PPG Industries Inc - Lake Charles Complex  
**Activity Number:** PER20070008  
**Permit Number:** 2695-V1  
**Air - Title V Regular Permit Minor Mod**

**EQT0440 358: Byproduct/Slab Storage Tank**

- 45 [40 CFR 63.123(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep the records as long as the storage vessel retains Group 2 status and is in operation. Subpart G. [40 CFR 63.123(a)]  
 VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the type(s) of VOC stored and the length of time stored.  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is not required. Only emits Class III TAPs.

**EQT0441 528: MC Ash Liquor Tank**

- 48 [40 CFR 63.132(a)(1)] Determine whether each wastewater stream requires control for Table 9 compounds by complying with the requirements in 40 CFR 63.132(a)(1)(i) or (a)(1)(ii), and (a)(1)(iii). Subpart G. PPG submitted this information to LDEQ within the HON Notification of Compliance Status (NOCs). [40 CFR 63.132(a)(1)]  
 Determine total annual average concentration of Table 9 compounds according to the procedures in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 9 compounds. Subpart G. PPG submitted this information to LDEQ within the HON Notification of Compliance Status (NOCs). [40 CFR 63.132(c)]  
 Determine annual average concentration for each Table 8 compound according to the procedures specified in 40 CFR 63.144(b), and determine annual average flow rate according to the procedures specified in 40 CFR 63.144(c), to determine whether a wastewater stream is Group 1 or Group 2 for Table 8 compounds. Subpart G. PPG submitted this information to LDEQ within the HON Notification of Compliance Status (NOCs). [40 CFR 63.132(d)]  
 Do not discard liquid or solid organic materials with a concentration of greater than 10,000 ppm of Table 9 compounds (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of 40 CFR 63.144(b)) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. Subpart G. PPG acknowledged this information within the HON Notification of Compliance Status (NOCs). [40 CFR 63.132(f)]  
 Flow rate < 1 Mg/yr. Demonstrate the total source mass flow rate for untreated Group 1 wastewater streams and Group 1 wastewater streams treated to levels less stringent than required in 40 CFR 63.138(b) or (c) using the procedures in 40 CFR 63.138(i)(2)(i) or (i)(2)(ii). Manage these wastewater streams in accordance with 40 CFR 63.138(i)(2)(iii). Subpart G. PPG submitted this information to LDEQ within the HON Notification of Compliance Status (NOCs). [40 CFR 63.138(i)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Identify wastewater streams in the Notification of Compliance Status required by 40 CFR 63.152(b). Subpart G. PPG submitted this information to LDEQ within the HON Notification of Compliance Status (NOCs). [40 CFR 63.138(i)(3)]  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records specified in 40 CFR 63.147(a) through (f), as applicable. Subpart G.  
 Comply with the provisions of 40 CFR 63. Subpart G Table 35 for each item of equipment meeting all the criteria specified in 40 CFR 63.149(b) through (d) and either (e)(1) or (e)(2). Subpart G. [40 CFR 63.149(a)]  
 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Compliance with 40 CFR 63 Subparts A, F and G constitutes compliance with this requirement.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

**EQT0442 529: No 4 OHC Reactor Fluidization Scrubber**

- 57 [LAC 33:III.131.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average  
Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.  
Flow rate > 0.01 gallons/min. [STATE ONLY].
- 58 [LAC 33:III.2115.K] Which Months: All Year Statistical Basis: Daily average  
Flow rate monitored by flow rate monitoring device daily. [STATE ONLY].
- 59 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified  
Flow rate recordkeeping by electronic or hard copy as needed. [STATE ONLY].
- 60 [LAC 33:III.501.C.6] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
PM and VOC emissions are controlled by a scrubber. Determined as MACT.
- 61 [LAC 33:III.501.C.6] PM and VOC emissions are controlled by a scrubber. Determined as MACT.
- 62 [LAC 33:III.5109.A]

**EQT0443 530: No 4 OHC Catalyst Box Scrubber**

- 63 [LAC 33:III.131.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.  
Which Months: All Year Statistical Basis: Six-minute average  
Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.  
Flow rate > 0.01 gallons/min. [STATE ONLY].
- 64 [LAC 33:III.2115.K] Which Months: All Year Statistical Basis: Daily average  
Flow rate monitored by flow rate monitoring device daily. [STATE ONLY].
- 65 [LAC 33:III.501.C.6] Which Months: All Year Statistical Basis: None specified  
Flow rate recordkeeping by electronic or hard copy as needed. [STATE ONLY].
- 66 [LAC 33:III.501.C.6] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.  
PM emissions are controlled by a scrubber. Determined as MACT.
- 67 [LAC 33:III.501.C.6]
- 68 [LAC 33:III.5109.A]

**EQT0444 533C: TE-2 Cooling Tower**

- 69 [40 CFR 63.104(c)(3)] Heat exchange systems: Maintain, at all times, the monitoring plan currently in use. Maintain on-site, or accessible from a central location by computer or other means that provide access within 2 hours after a request. If a monitoring plan is superseded, retain the most recent superseded plan at least until 5 years from the date of its creation. Retain the superseded plan on-site (or accessible from a central location by computer or other means that provides access within 2 hours after a request) for at least 6 months after its creation. Subpart F. [40 CFR 63.104(c)(3)]

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

**EQT0444 533C: TE-2 Cooling Tower**

- 70 [40 CFR 63.104(c)] Heat exchange systems: Prepare and implement a monitoring plan that documents the procedures that will be used to detect leaks of process fluids into cooling water. Require monitoring of one or more surrogate indicators or monitoring of one or more process parameters or other conditions that indicate a leak. Include the information specified in 40 CFR 63.104(c)(1) and (ii). Monitor no less frequently than monthly for the first six months and quarterly thereafter to detect leaks. If a substantial leak is identified by methods other than those described in the monitoring plan and method(s) specified in the plan could not detect the leak, revise the plan and document the basis for the changes. Complete revisions to the plan no later than 180 days after discovery of the leak. Subpart F. [40 CFR 63.104(c)]
- 71 [40 CFR 63.104(d)] Heat exchange systems: Repair leaks as soon as practicable but not later than 45 calendar days after receiving results of monitoring tests indicating a leak, if a leak is detected according to the criteria of 40 CFR 63.104(b) or (c). Once the leak has been repaired, confirm that the heat exchange system has been repaired within 7 calendar days of the repair or startup, whichever is later. Subpart F. [40 CFR 63.104(d)]
- 72 [40 CFR 63.104(f)] Heat exchange systems: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Retain the records identified in 40 CFR 63.104(f)(1) through (iv) as specified in 40 CFR 63.103(c)(1). Subpart F. [40 CFR 63.104(f)]
- 73 [LAC 33:III.5|09.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is not required. Only emits Class III TAPs.

**EQT0445 557: Stab Tank Farm Carbon Bed**

- 74 [40 CFR 63.10(d)(5)] Submit startup, shutdown, and malfunction report: Due semiannually (or on a more frequent basis if specified). Deliver or postmark by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). Submit report only if a startup, shutdown or malfunction occurred during the reporting period. Include a letter containing the name, title and signature of the owner or operator or other responsible official who is certifying its accuracy. This report may be submitted simultaneously with the excess emissions and continuous monitoring system performance report. Subpart A. [40 CFR 63.10(d)(5)(i)]. [40 CFR 63.10(d)(5)]
- 75 [40 CFR 63.10(d)(5)ii] Submit startup, shutdown, and malfunction report: Due within 2 working days after commencing actions during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) that are not consistent with the procedures in the startup, shutdown, and malfunction plan. Submit report by telephone call or facsimile transmission. Follow report with a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Subpart A. [40 CFR 63.10(d)(5)(ii)]. [40 CFR 63.10(d)(5)ii]
- 76 [40 CFR 63.6(e)(3)] Develop and implement a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. Identify in the plan all routine or otherwise predictable CMS malfunctions, as required under 40 CFR 63.8(c)(1)(i). Develop the plan by the source's compliance date for that relevant standard. Incorporate by reference into the Title V permit. [40 CFR 63.6(e)(3)]. [40 CFR 63.6(e)(3)]
- 77 [LAC 33:III.2|15.K] Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
- 78 [LAC 33:III.5|09.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Emissions are controlled by Carbon Bed. Determined as MACT.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
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**EQT0460 66B-T-413: RP Tank**

- 79 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 80 [40 CFR 63.117(a)]

**EQT0465 66B-T-429: No 1 Light Storage Tank**

- 81 [LAC 33:III.2103.A] Equip with a submerged fill pipe.  
 82 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.  
 83 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT0466 66B-T-430: No 2 Light Storage Tank**

- 84 [LAC 33:III.2103.A] Equip with a submerged fill pipe.  
 85 [LAC 33:III.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.  
 86 [LAC 33:III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

**EQT0468 69A-C-103: EDC Heavies Still System**

- 87 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 88 [40 CFR 63.117(a)]

**EQT0469 66B-C-67130: EDC Lights Still**

- 89 [40 CFR 63.113(a)(2)] Organic HAP >= 98 % reduction by weight, or <= 20 ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]
- 90 [40 CFR 63.117(a)]

**EQT0470 66B-C-402: EDC DH Still**

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
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 Air - Title V Regular Permit Minor Mod

**EQT0470 66B-C-402: EDC DH Still**

- 91 [40 CFR 63.113(a)(2)] Organic HAP  $\geq 98\%$  reduction by weight, or  $\leq 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**EQT0471 69A-R-102: MC Reactor System**

- 93 [40 CFR 63.113(a)(2)] Organic HAP  $\geq 98\%$  reduction by weight, or  $\leq 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**EQT0472 69A-R-401: No 4 OHC Reactor System**

- 95 [40 CFR 63.113(a)(2)] Organic HAP  $\geq 98\%$  reduction by weight, or  $\leq 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**EQT0473 69A-T-129: NTE Storage Tank**

- 97 [LAC 33.III.2103.A] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.  
 98 [LAC 33.III.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33.III.2103.I.1 - 7, as applicable.

**EQT0474 69A-C-108: MC Product Still System**

- 99 [40 CFR 63.113(a)(2)] Organic HAP  $\geq 98\%$  reduction by weight, or  $\leq 20$  ppmv, whichever is less stringent, as determined using the methods in 40 CFR 63.116(c).  
 Subpart G. [40 CFR 63.113(a)(2)]  
 Which Months: All Year Statistical Basis: None specified  
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep up-to-date, readily accessible records of the data specified in 40 CFR 63.117(a)(4) through (a)(8), as applicable. Subpart G. [40 CFR 63.117(a)]

**FUG0004 349A: TE-2 Unit Fugitive Equipment Leaks**

- 101 [40 CFR 63.160] Shall comply with all applicable provisions of 40 CFR 63, Subpart H.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit Minor Mod

**FUG0004 349A: TE-2 Unit Fugitive Equipment Leaks**

- Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- Comply with 40 CFR 60 Subpart VV, 40 CFR 61 Subpart V, 40 CFR 61 Subpart F, and LAC 33:III.2111 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with 40 CFR 63 Subpart H (HON).
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- PPG will monitor fugitives per the Memorandum of Understanding (MOU) on Louisiana Fugitive Emission Program Consolidation Guidelines.

**UNF0007 TE-2 Unit**

- All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies.
- Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.
- Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]
- PPG shall comply with all applicable provisions of NESHAP 40 CFR 61 Subpart F, except the exhaust gas provisions superseded by 40 CFR 63.110(f). [40 CFR 61 Subpart F].
- All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
- PPG shall comply with the HON wastewater provisions which supersede certain requirements of 40 CFR 61 Subpart FF. [40 CFR 63.110(e)]
- All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.
- Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
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**UNF0007 TE-2 Unit**

- If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years.
- Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.
- Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- Submit Annual Emissions Report (TED): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations"
- Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:1.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:1.3923.
- Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:1.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:1.3923.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex

Activity Number: PER20070008

Permit Number: 2695-V1

Air - Title V Regular Permit Minor Mod

**UNF0007 TE-2 Unit**

- 130 [LAC 33:III.5107.B.4] Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology.
- Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2.
- Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department.
- Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source.
- Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source.
- Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test.
- Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ.
- Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.
- Analyze samples and determine emissions within 30 days after each emission test has been completed.
- Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
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**UNF0007 TE-2 Unit**

- 145 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 146 [LAC 33:III.5113.C.1] Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- 147 [LAC 33:III.5113.C.2] Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.
- 148 [LAC 33:III.5113.C.2] Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin.
- 149 [LAC 33:III.5113.C.2] Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation.
- 150 [LAC 33:III.5113.C.3] Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems.
- 151 [LAC 33:III.5113.C.5.a] Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B.
- 152 [LAC 33:III.5113.C.5.a] Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days.
- 153 [LAC 33:III.5113.C.5.d] Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS.
- 154 [LAC 33:III.5113.C.5.e] Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS.
- 155 [LAC 33:III.5113.C.5] Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system.
- 156 [LAC 33:III.5113.C.7] Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ.
- 157 [LAC 33:III.5151.F.1.f] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 158 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 159 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 160 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.

**SPECIFIC REQUIREMENTS**

AI ID: 1255 - PPG Industries Inc - Lake Charles Complex  
 Activity Number: PER20070008  
 Permit Number: 2695-V1  
 Air - Title V Regular Permit,Minor Mod

**UNF0007 TE-2 Unit**

- 161 [LAC 33:III.5609.A]  
 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.  
 Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7.  
 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. The requirements for 40 CFR 68 can be found in PPG's Complex Support Title V permit (Permit No. 2359-YO).
- 162 [LAC 33:III.5901.A]  
 Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 163 [LAC 33:III.919.D]  
 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
- 164 [LAC 33:III.927]